

IN THE CLAIMS

Attached is a listing of the claims in accordance with the revised format of amending. "Original" means the claim was in the claim set attached to the IPER.

1. (Previously Presented) A printing method comprising:

providing a substrate having a surface coated with a film coating comprising at least 25% nano-silica by weight; and

printing on the coated surface with a liquid toner comprising pigmented polymer particles and a carrier liquid.

2. (Original) A printing method according to claim 1 wherein the coating comprises an acrylic material.

3. (Original) A printing method according to claim 2 wherein the acrylic material comprises a cross-linked polyacrylic ester.

4. (Previously Presented) A printing method according to claim 1 wherein the coating is UV cured.

5. (Previously Presented) A printing method according to claim 1 wherein the coating comprises at least 30% silica.

6. (Original) A printing method according to claim 5 wherein the coating comprises at least 35% silica.

7. (Original) A printing method according to claim 6 wherein the coating comprises at least 40% silica.

8. (Original) A printing method according to claim 7 wherein the coating comprises at least 45% silica.

9. (Original) A printing method according to claim 8 wherein the coating comprises at least 50% silica.

10. (Previously Presented) A printing method according to claim 1 wherein the silica has a size of between 5 and 50 nanometers.

11. (Original) A printing method according to claim 10 wherein the silica has a size of between 10 and 40 nanometers.

12. (Original) A printing method according to claim 11 wherein the silica has a size of between 10 and 20 nanometers.

13. (Original) A printing method according to claim 12 wherein the silica has a size of about 16 nanometers.

14. (Previously Presented) A printing method according to claim 1 wherein the silica is not chemically bonded to the rest of the coating.

15. (Previously Presented) A printing method according to claim 1 wherein the silica is chemically bonded to the rest of the coating.

16. (Previously Presented) A printing method according to claim 1 wherein the coating further comprises an anchorage agent.

17. (Original) A printing method according to claim 16 wherein the anchorage agent comprises an amine material.

18. (Original) A printing method according to claim 17 wherein the amine material comprises a diamine terminated substance.

19. (Original) A printing method according to claim 17 wherein the amine material comprises a monoamine terminated substance.

20. (Original) A printing method according to claim 17 wherein the amine material comprises a triamine terminated substance.

21. (Currently Amended) A printing method according to claim 18 wherein the substance is Poly(propylene oxide) poly(propylene oxide).

22. (Currently Amended) A printing method according to claim 18 wherein the substance is Poly-oxyethelene poly-oxyethelene.

23. (Previously Presented) A printing method according to claim 1 wherein the substrate and the pigmented particles are both acidic.

24. (Previously Presented) A printing method according to claim 1 wherein the substrate is coated with a polyamide coating between the coating containing silica and the substrate.

25. (Canceled)

26. (Previously Presented) A printing method according to claim 1 wherein the material of the substrate is chosen from the group consisting of PET, PVC and polycarbonate.

27. (Canceled)

28. (Previously Presented) A printing method according to claim 1 wherein the coating forms a substantially smooth surface.

29. (Previously Presented) A printing method according to claim 1 wherein the substrate is a sheet of material.

30. (Previously Presented) A printing method according to claim 1 wherein the substrate is a disk.

31. (Previously Presented) A printing method according to claim 1 wherein the surface of the coating is continuous.

32. (Previously Presented) A printing method according to claim 1 wherein the coating is smooth.

33. (Original) A substrate comprising:

a sheet of polymer; and

a printable coating in the form of a film, on the polymer sheet comprising at least 25% nano-silica by weight of total solids.

34. (Original) A coated substrate according to claim 33 wherein the coating comprises an acrylic material.

35. (Original) A coated substrate according to claim 34 wherein the acrylic material comprises a cross-linked polyacrylic ester.

36. (Previously Presented) A coated substrate according to claim 33 wherein the coating is UV cured.

37. (Previously Presented) A coated substrate according to claim 33 wherein the coating comprises at least 30% silica.

38. (Original) A coated substrate according to claim 37 wherein the coating comprises at least 35% silica.

39. (Original) A coated substrate according to claim 38 wherein the coating comprises at least 40% silica.

40. (Original) A coated substrate according to claim 39 wherein the coating comprises at least 45% silica.

41. (Original) A coated substrate according to claim 40 wherein the coating comprises at least 50% silica.

42. (Previously Presented) A coated substrate according to claim 33 wherein the silica has a size of between 5 and 50 nanometers.

43. (Original) A coated substrate according to claim 42 wherein the silica has a size of between 10 and 40 nanometers.

44. (Original) A coated substrate according to claim 43 wherein the silica has a size of between 10 and 20 nanometers.

45. (Original) A coated substrate according to claim 44 wherein the silica has a size of about 16 nanometers.

46. (Previously Presented) A coated substrate according to claim 33 wherein the silica is not chemically bound to the rest of the coating.

47. (Previously Presented) A coated substrate according to claim 33 wherein the silica is chemically bound to the rest of the coating.

48. (Previously Presented) A coated substrate according to claim 33 wherein the coating further comprises an anchorage agent.

49. (Original) A coated substrate according to claim 48 wherein the anchorage agent comprises an amine material.

50. (Original) A coated substrate according to claim 49 wherein the amine material comprises a diamine terminated substance.

51. (Original) A coated substrate according to claim 49 wherein the amine material comprises a monoamine terminated substance.

52. (Original) A coated substrate according to claim 49 wherein the amine material comprises a triamine terminated substance.

53. (Currently Amended) A coated substrate according to claim 50 wherein the substance is Poly(propylene oxide) poly(propylene oxide).

54. (Currently Amended) A printing method according to claim 50 wherein the substance is Poly-oxyethelene poly-oxyethelene.

55. (Previously Presented) A coated substrate according to claim 33 wherein the substrate is acidic.

56. (Previously Presented) A coated substrate according to claim 33 wherein the substrate is coated with a polyamide coating between the coating containing silica and the sheet.

57. (Previously Presented) A coated substrate according to claim 33 wherein the material of the sheet is chosen from the group consisting of PVC, PET and polycarbonate.

58 – 59. (Canceled)

60. (Previously Presented) A coated substrate according to claim 33 wherein the coating is smooth.

61. (New) A printing method according to claim 29 wherein the sheet is flexible.

62. (New) A printing method according to claim 61 wherein the resultant print on the sheet is a transparency.

63. (New) A coated substrate according to claim 29 wherein the sheet is flexible.

64. (New) A coated substrate according to claim 63 wherein the substrate is a transparency.